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Cap. 3

# SNOW SURVEYS and WATER SUPPLY OUTLOOK for ALASKA



U. S. DEPARTMENT OF AGRICULTURE RECORDS  
COLLABORATING WITH THE SOIL CONSERVATION SERVICE

U. S. DEPARTMENT OF AGRICULTURE ★ SOIL CONSERVATION SERVICE  
Collaborating with  
ALASKA SOIL CONSERVATION DISTRICT

Data included in this report were obtained by the agencies named above in cooperation  
with Federal, State and private organizations listed inside the back cover of this report.

AS OF  
FEB. 1, 1978

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*COVER PHOTO: SPRINGTIME ON THE KENAI PENINSULA*

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bismarck, Montana 57115
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



FEDERAL - STATE - PRIVATE

# **SNOW SURVEYS AND WATER SUPPLY OUTLOOK FOR ALASKA**

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SNOW SURVEY TRAINING SCHOOL

ALASKA SUMMARY  
as of  
FEBRUARY 1, 1978

The major early February snowstorm over much of Alaska has significantly changed the snow survey readings made on or about February 1. The extent of this change will not be known until the surveys are made on March 1. The following area summaries describe conditions existing prior to the big storm.

KOYUKUK DRAINAGE

The snowpack in this region is very near the average for the previous seven years and similar to what it was a year ago.

TANANA-CHENA DRAINAGE

Snowfall in the Chena drainage is below normal, but well ahead of last year. The Delta Junction area, however, is above average for February first.

### COPPER DRAINAGE

Most of the Copper River basin is very near average with the exception of the Mentasta Pass-Mankoman Lake region which is below normal.

### SUSITNA DRAINAGE

The Upper Susitna is also near average. The Lower Susitna Valley, however, is 25 to 45 percent below normal and only about half of what it was on February first a year ago.

### UPPER COOK INLET DRAINAGES

The Ship Creek snowpack is 35 to 40 percent below normal and less than half as heavy as last year's record amount.

### KENAI PENINSULA DRAINAGES

The Kenai is also about 40 percent below the previous eight-year-average for February first.

### SOUTHEAST DRAINAGES

No data has been received from southeast that relates current conditions with past years of record.

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year
NO FORECASTS MADE BEFORE MARCH 1, 1978				

## SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR		PAST RECORD		
NAME	Number	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Years of Previous Record Average +
AS OF JAN. 1, 1978							
<u>TANANA-CHENA:</u>							
Bonanza Creek	66	1150	1/5	15	2.1	---	---
Caribou Creek	68	1440	12/30	14	2.0	---	---
Caribou Snow Pillow (formerly Poker Creek)	69	1025	12/30	14	1.9	---	---
Colorado Creek	63	750	12/29	15	2.1	---	4.3
Haystack	67	1950	12/30	18	2.8	---	6
<u>SOUTHEAST:</u>							
Cropley Lake	94	1650	1/3	58	15.8	---	---
Fish Creek	96	500	1/3	26	6.2	---	---
Eaglecrest	95	1000	1/3	43	11.7	---	---
AS OF JAN. 15, 1978							
<u>TANANA-CHENA:</u>							
Caribou Mine	55	1115	1/16	17a	2.9e	1.8e	3.2
Cleary Summit	64	2230	1/16	19a	3.2e	1.3e	3.8
Little Chena	62	2200	1/16	16a	2.7e	1.5e	3.5
Lower Chena	59	2000	1/16	17a	3.0e	2.7e	---
Mt. Pyan	61	2950	1/16	17a	2.9e	2.2e	3.9
Munson Ridge	56	3100	1/16	30a	6.6e	2.7e	5.4
Teuchet Creek	57	1640	1/16	18a	3.1e	---	0
Upper Chena	58	3000	1/16	19a	1.9e	3.6e	4.6
AS OF FEB. 1, 1978							
<u>TANANA-CHENA:</u>							
Big Delta	52	980	N O S U R V E Y		0.4	2.3	7
Bonanza Creek	66	1150	Delayed Report		3.2	3.8	6
Caribou Creek	68	1440	2/1	17	2.3	3.1	4.2
Caribou Mine	55	1115	N O S U R V E Y		---	5.1	9
Caribou Snow Pillow (formerly Poker Creek)	69	1025	2/1	16	2.4	3.1	4.0

a - aerial marker reading    e - estimated

+ 1958-1972 period.

## SNOW

DRAINAGE BASIN and/or SNOW COURSE			Date of Survey	THIS YEAR		PAST RECORD		
NAME	Number	Elevation		Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	Last Year	Average +
<u>TANANA-CHENA Continued:</u>								
Cleary Summit	64	2230	1/30	21	3.6	4.9	6.0	10
Colorado Creek	63	750	1/26	18	2.7	2.8	4.2	12
Fielding Lake	49	3000	2/2	40	9.6	10.2	8.3	6
Ft. Greely	50	1420	1/31	18	3.2	0.0	2.5	11
French Creek	53	2010	2/3	21	4.2	1.6	4.3	9
Granite Creek	51	1240	2/1	15	2.8	1.4	2.5	10
Haystack Mountain	67	1950	2/6	21	3.3	4.1	6.2	8
Little Chena	62	2200	1/30	18	3.1	4.8	5.9	8
Little Salcha	54	1500	2/2	19	4.0	1.0	3.6	9
Lower Chena	59	2000	N 0 S	R V E Y	---	---	---	---
Mentasta Pass	47	2430	2/2	20	3.5	5.7	5.0	6
Monument Creek	60	1900	1/30	18	3.5	---	4.0	3
Mt. Ryan	61	2950	1/30	19	3.3	5.2	7.5	8
Munson Ridge	56	3100	1/30	34	8.1	5.5	9.5	10
Teuchet Creek	57	1640	N 0 S	R V E Y	---	3.0	4	
Tok Junction	46	1650	2/3	13	2.0	2.5	2.6	6
Upper Chena	58	3000	N 0 S	R V E Y	---	8.8	6	
Yak Pasture	65	540	1/30	18	3.3	3.7	3.5	9
<u>COPPER RIVER:</u>								
Haggard Creek	48	2540	2/2	23	4.0	7.3	4.2	11
Little Nelchina	31	4160	1/28	21a	4.0e	5.1e	3.7	9
Mankomen Lake	45	3050	2/1	26	4.2	7.7	5.0	11
St. Anne Lake	28	1990	1/28	19	3.4	3.4	3.5	12
Sanford River	27	2280	1/28	22a	3.5e	2.5e	3.5	11
<u>MATANUSKA-SUSITNA:</u>								
Alexander Lake	18	200	1/27	24	4.1	11.5e	7.6	13
Bald Mountain Lake	23	2150	1/27	19a	3.4e	9.0e	4.4	12
Chelatna Lake	20	1650	1/27	25a	4.3e	7.3e	6.8	13
Clearwater Lake	26	3100	1/27	25	4.1	3.4e	3.8	12
Devils Canyon	124	1350	1/27	18a	3.0e	6.7e	---	1
Fog Lakes	24	2250	1/27	17	2.6	5.6	4.5	8
Lake Louise	29	2400	1/27	20	3.0	3.1	2.9	12
Monahan Flat	25	2710	1/27	28	5.6	6.0e	5.1	12
Oshtetna Lake	30	2950	1/28	16	2.7	2.9	2.7	13
Peters Hills	21	2010	1/27	58a	10.4e	15.8e	10.3	10
Skwentna	19	160	1/27	27	4.5	10.7	7.0	11
Talkeetna	22	350	1/27	18	3.4	6.7	5.8	11
Willow Airstrip	32	150	1/28	22	4.0	6.4	5.1	13
<u>UPPER COOK INLET:</u>								
Arctic Ski Bowl	5	3000	2/1	22	5.1	10.5	8.4	12
Arctic Valley #1	1	500	2/1	16	2.8	0.2	2.4	12
Arctic Valley #2	2	1000	2/1	13	2.2	1.0	2.5	12
Arctic Valley #3	3	2030	2/1	17	3.0	5.7	4.4	12
Arctic Valley #4	4	2330	2/1	16	2.9	6.5	4.9	12
Bird Creek	8	2350	1/30	28	5.6	14.2	10.4	11
Indian Pass	7	2350	1/30	42	9.2	23.8	14.1	11
McArthur	17	120	1/28	16a	3.5e	---	11.7	12
Mt. Alyeska	10	1200	Delayed	Report		38.0	23.5	5
Ship Creek	6	1750	1/30	20	4.2	8.4	6.7	11
South Campbell Creek	9	1200	1/30	18	2.7	4.4	5.0	4

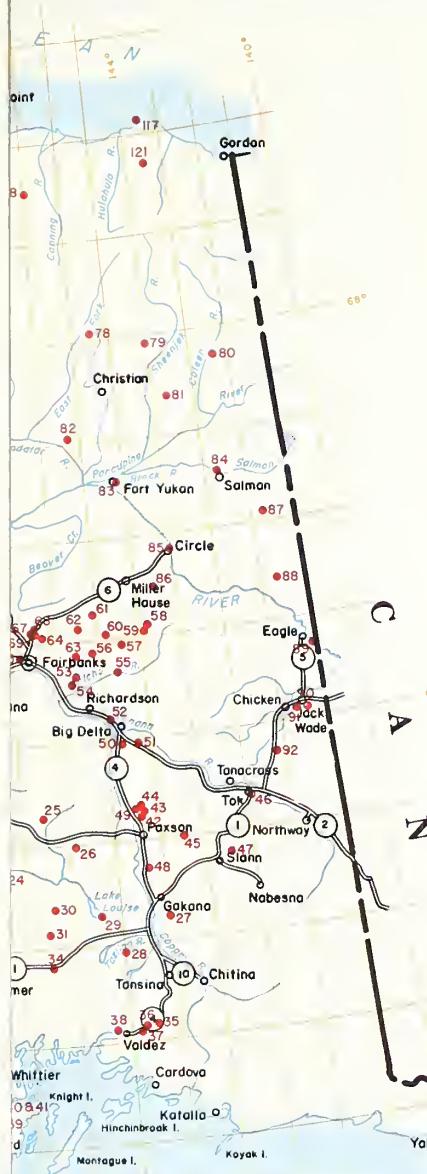
a - aerial marker reading e - estimated

+ 1958-1972 period.

## SNOW

DRAINAGE BASIN and/or SNOW COURSE			Date of Survey	THIS YEAR		PAST RECORD		
NAME	Number	Elevation		Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Years of Previous Record	
KENAI PENINSULA:								
Bertha Creek	11	850	1/30	31	7.3	17.0	9.7	8
Bridge Creek, Lower	16	1100	2/1	23	4.5	11.8	7.4	5
Bridge Creek, Upper	15	1300	2/1	25	4.7	11.2	7.6	5
Demonstration Forest	125	770	2/1	15	3.0	---	---	0
Jean Lake	14	620	1/30	10	2.0	3.1	2.9	8
Kenai Summit	12	1390	1/30	26	5.4	15.4	8.4	8
Moose Pass	13	700	1/30	0	0.0	0.0	3.1	8
SOUTHEAST:								
Cropley Lake	94	1650	2/1	47	16.7	---	---	0
Eagle Crest	95	1000	2/1	37	11.9	---	---	0
Fish Creek	96	500	2/1	24	7.0	---	---	0
Harriet Top	102	2000	N O S U R V E Y			---	37.2	4
Hunt Saddle	103	1500	N O S U R V E Y			---	29.4	4
Lake Shore	104	660	N O S U R V E Y			---	16.2	4
KOYUKUK:								
Coldfoot	109	1000	1/31	28	5.8	4.4	---	1
Dietrich River	110	1550	1/31	19	3.1	4.0	---	1
Five Mile Camp	106	400	1/30	20	3.1	6.5	---	1
Prospect Creek	108	980	1/30	25	4.7	6.0	5.7	2
Table Mountain	111	2200	1/31	22	4.5	4.0	3.7	2
Thirty Mile	107	1300	1/30	27	5.2	8.0	6.8	2
WYOMING PRECIPITATION GAGES					INCREMENT SINCE LAST READING		ACCUMULATIVE TOTAL	
KOYUKUK:				DATE				
Atigun Pass	123	4900	9/14		I N I T I A L	R E A D I N G		
Chandalar Shelf	122	3400	9/14		I N I T I A L	R E A D I N G		
NORTH SLOPE:								
Barrow	115	15		D E L A Y E D	R E P O R T			
Barter Island	117	15		D E L A Y E D	R E P O R T			
Kavik River	118	200		D E L A Y E D	R E P O R T			
Jago River	121	550		D E L A Y E D	R E P O R T			
Meade River	116	200		D E L A Y E D	R E P O R T			
Prudhoe Bay	114	30		D E L A Y E D	R E P O R T			
Sagwon	113	1000		D E L A Y E D	R E P O R T			
Toolik River	112	3100	9/11	I N I T I A L	R E A D I N G			
SEWARD PENINSULA:								
Candle	119	20	10/31	I N I T I A L	R E A D I N G			
a - aerial marker reading			e - estimated					

+ 1958-1972 period.



LEGEND

- State Boundary
- Juneau State Capitol
- Palmer Town Less Than 5000 Population
- Fairbanks Town 5000 to 25,000 Population
- Anchorage Town Over 25,000 Population

Towns of less than 5000 omitted from map unless incorporated or required for orientation purposes



GULF OF ALASKA

NOW COURSES AND RELATED  
DATA MEASURING SITES

**ALASKA**

1978

20 0 20 40  
SCALE 1:2,500,000

ALBERS EQUAL AREA PROJECTION

# INDEX OF ALASKA SNOW COURSES

MAP NO.	COURSE NAME	COURSE NO. *	ELEV.	LAT.	LONG.	MEAS. DATES *	MEAS. BY *	MAP NO.	COURSE NAME	COURSE NO. *	ELEV.	LAT.	LONG.	MEAS. DATES *	MEAS. BY *
1	Arctic Valley #1	49MM1	500	61°13'N	149°40'W	2,3,4,5	c	76	Chandalar Lake	48SS1A	2040	67°30'N	148°30'W	3,4	a
2	Arctic Valley #2	49MM2	1000	61°13'N	149°37'W	2,3,4,5	c	77	Squaw Lake	48SS2a	2150	67°33'N	148°15'W	3,4	a
3	Arctic Valley #3	49MM3	2030	61°14'N	149°35'W	2,3,4,5	c	78	Arctic Village	45TT1A	2300	68°05'N	145°35'W	3,4	a
4	Arctic Valley #4	49MM4	2330	61°14'N	149°33'W	2,3,4,5	c	79	Koness Lake	44SS1A	1790	67°55'N	144°08'W	3,4	a
5	Arctic Ski Bowl	49MM5	3000	61°15'N	149°31'W	2,3,4,5	c	80	Coleen River	42SS1A	1100	67°44'N	142°28'W	3,4,7	a
6	Ship Creek	49MM7MPS	1750	61°08'N	149°28'W	2,3,4,5	a	81	Vundik Lake	43SS1a	950	67°23'N	143°45'W	3,4	a
7	Indian Pass	49MM8A	2350	61°05'N	149°29'W	2,3,4,5	a	82	Venetie	46SS1A	610	67°03'N	146°25'W	3,4,7	a
8	Bird Creek	49MM6A	2350	61°06'N	149°20'W	2,3,4,5,7	a	83	Fort Yukon	45RR1AM	430	66°35'N	145°15'W	3,4,7	a
9	South Campbell Creek	49MM11	1200	61°08'N	149°42'W	2,3,4,5	a	84	Black River	42RR1A	650	66°36'N	142°45'W	3,4,7	a
10	Mt. Alyeska	49LL15S	1200	60°57'N	149°05'W	2,3,4,5	a,b	85	Circle City	44QQ3A	600	65°50'N	144°05'W	3,4,7	a
11	Bertha Creek	49LL2	850	60°45'N	149°51'W	2,3,4,5	a	86	Circle Hot Springs	44QQ5	860	65°29'N	144°39'W	3,4	a
12	Kenai Summit	49LL3	1390	60°40'N	149°28'W	2,3,4,5	a	87	Dempsey Creek	41RR2A	950	66°06'N	141°48'W	3,4	a
13	Moose Pass	49LL4	700	60°31'N	149°30'W	2,3,4,5	a	88	Nation River	41QQ1a	3050	65°25'N	141°40'W	3,4	a
14	Jean Lake	50LL1	620	60°31'N	150°11'W	2,3,4,5	a	89	Eagle Village	41PP1A	900	64°08'N	141°08'W	3,4,7	a
15	Bridge Creek (UP)	51KK1	1300	59°42'N	151°28'W	3,4,5	a	90	Boundary	41PP3A	3300	64°05'N	141°27'W	3,4	a
16	Bridge Creek (LO)	51KK2	1100	59°40'N	151°32'W	3,4,5	a	91	Chicken Airstrip	41PP2A	1650	64°05'N	141°45'W	3,4,7	a
17	McArthur	52LL1A	120	61°00'N	152°00'W	2,3,4,5	a,c	92	Mt. Fairplay	42001a	3100	63°42'N	142°17'W	3,4,5	a
18	Alexander Lake	50MM1A	200	61°45'N	150°54'W	2,3,4,5	a,c	93	Douglas Ski Bowl	34JJ1	1640	58°16'N	134°27'W	3,4,5	b
19	Skwentna	51MM1A	160	61°58'N	151°12'W	2,3,4,5	a,c	94	Cropley Lake	34JJ2	1650	58°16'N	134°31'W	1,2,3,4	b
20	Chelatna Lake	51NN1a	1650	62°31'N	151°29'W	2,3,4,5	a,c	95	Eagle Crest	34JJ3	1000	58°17'N	134°32'W	1,2,3,4	b
21	Peters Hills	50NN1a	2010	62°31'N	150°57'W	2,3,4,5	a,c	96	Fish Creek	34JJ4	500	58°19'N	134°33'W	1,2,3,4	b
22	Talkeetna	50NN2	350	62°18'N	150°05'W	2,3,4,5	a,c	97	Upper Long Lake	33JJ2aS	1000	58°11'N	133°53'W	3,4,5,6,7	e
23	Bald Mtn. Lake	49NN1A	2150	62°15'N	149°45'W	2,3,4,5	a,c	98	Speel River	33JJ3A	280	58°09'N	133°43'W	3,4,5,6,7	e
24	Fog Lakes	48NN2A	2250	62°47'N	148°29'W	2,3,4,5	a,c	99	Petersburg Reservoir	32HH1	550	56°47'N	132°56'W	2,3,4,5	b
25	Monahan Flat	47001A	2710	63°18'N	147°39'W	2,3,4,5	a,c	100	Mitkof Island	32HH2	1050	56°46'N	132°56'W	2,3,4,5	b
26	Clearwater Lake	46NN1A	3100	62°59'N	146°58'W	2,3,4,5	a,c	101	Crystal Lake	32HH3	1375	56°36'N	132°50'W	2,3,4,5	b
27	Sanford River	45NN2A	2280	62°13'N	145°04'W	2,3,4,5	a,c	102	Harriet Top	31GG1	2000	55°29'N	131°37'W	3,4,5	b
28	St. Anne's Lake	46MM1A	1990	61°53'N	146°03'W	2,3,4,5	a,c	103	Hunt Saddle	31GG2	1500	55°30'N	131°37'W	3,4,5	b
29	Lake Louise	46NN2A	2400	62°17'N	146°30'W	2,3,4,5	a,c	104	Lake Shore	31GC3	660	55°29'N	131°36'W	3,4,5	b
30	Oshetna Lake	47NN1A	2950	62°23'N	147°29'W	2,3,4,5	a,c	105	Log Cabin (B.C.)	34KK1	2880	59°45'N	134°58'W	3,4,5	e
31	Little Nelchina	47NN2a	4160	62°07'N	147°36'W	2,3,4,5	a,c	106	Five Mile Camp	49RR1	400	65°55'N	149°48'W	2,3,4,5	i
32	Willow Airstrip	50MM2	150	61°45'N	150°03'W	2,3,4,5	a,c	107	Thirty Mile	50RR2a	1300	66°13'N	150°15'W	2,3,4,5	i
33	Independence Mine	49MM10	3300	61°45'N	149°25'W	3,4,5	a	108	Prospect Creek	50RR1	980	66°47'N	150°45'W	2,3,4,5	i
34	Sheep Mountain	47MM2	2900	61°47'N	147°30'W	3,4,5	a	109	Cold Foot Camp	50SS1	1000	67°16'N	150°10'W	1,2,3,4	i
35	Tsaina River	45MM4	1500	61°12'N	145°30'W	3,4,5	a	110	Dietrich Camp	49SS1A	1550	67°42'N	149°45'W	2,3,4,5	i
36	Worthington Glacier	45MM2	2400	61°10'N	145°45'W	3,4,5	a	111	Table Mountain	49SS3a	2200	67°58'N	149°45'W	2,3,4,5	i
37	Lowe River	45MM3	550	61°06'N	145°50'W	3,4,5	a	112	Toolik River	49TT1	3100	68°37'N	149°26'W	7	d
38	Valdez	46MM2	50	61°08'N	146°20'W	2,3,4,5	a	113	Sagwon	48UU1	1000	69°26'N	148°34'W	7	d
39	Wolverine Glacier (A)	48LL1	2130	60°23'N	148°54'W	1,2,4,5,6,7	g	114	Prudhoe Bay	48VV1	30	70°15'N	148°30'W	7	h
40	Wolverine Glacier (B)	48LL2	3610	60°25'N	148°55'W	2,3,4,5,6,7	g	115	Barrow	56WW1	15	71°20'N	156°40'W	7	h
41	Wolverine Glacier C	48LL3	4430	60°25'N	148°55'W	1,2,4,6,7	g	116	Meade River	57VV1	200	70°29'N	157°25'W	7	h
42	Gulkana Glacier A	45006	4590	63°15'N	145°29'W	2,3,4,5,6,7	g	117	Barter Island	43VV1	15	70°08'N	143°37'W	7	h
43	Gulkana Glacier B	45007	5480	63°17'N	145°26'W	2,3,4,5,6,7	g	118	Kavik River	47UU1	200	69°30'N	147°00'W	7	h
44	Gulkana Glacier C	45008	6360	63°19'N	145°29'W	5,6,7	g	119	Candle	61QQ1	20	66°55'N	161°56'W	3,4	a,f
45	Mankomen Lake	44NN1	3050	63°00'N	144°32'W	2,3,4,5	a	120	Kugruk River	62QQ1	225	65°40'N	162°27'W	3,4	a,f
46	Tok Junction	43001	1650	63°18'N	143°00'W	2,3,4,5	a	121	Jago River	43UU1	550	69°42'N	143°36'W	7	h
47	Mentasta Pass	43NN1	2430	62°51'N	143°30'W	2,3,4,5	a	122	Chandalar Shelf	49TT2	3400	68°05'N	149°29'W	7	d
48	Haggard Creek	45NN1A	2540	62°42'N	145°28'W	2,3,4,5	a	123	Atigun Pass	49TT3	4900	68°08'N	149°35'W	7	d
49	Fielding Lake	45001A	3000	63°18'N	145°33'W	2,3,4,5	a	124	Devils Canyon	49NN2a	1350	62°49'N	149°18'W	2,3,4,5	a,c
50	Ft. Greely	45005	1420	63°57'N	145°45'W	1,2,3,4,5,7	a								
51	Granite Creek	45004	1240	63°57'N	145°24'W	1,2,3,4,5,7	a								
52	Big Delta	45PP1	980	64°14'N	145°58'W	2,3,4,5	a								
53	French Creek	46PP2MA	2010	64°43'N	146°40'W	2,3,4,5,7	a								
54	Little Salcha	46PP3	1500	64°38'N	146°44'W	2,3,4,5,7	a								
55	Caribou Mine	45PP2A	1115	64°40'N	145°40'W	2,3,4,5,7	a								
56	Munson Ridge	46PP1AP	3100	64°52'N	146°13'W	2,3,4,5,7	a								
57	Teuchet Creek	45PP3	1640	64°57'N	145°31'W	2,3,4,5	a								
58	Upper Chena	44QQ1AP	3000	65°07'N	144°55'W	2,3,4,5,7	a								
59	Lower Chena	44QQ6	2000	65°04'N	144°59'W	2,3,4,5,7	a								
60	Monument Creek	45Q02	1900	65°03'N	145°55'W	2,3,4,5	a								
61	Mt. Ryan	46QQ1AP	2950	65°16'N	146°07'W	2,3,4,5,7	a								
62	Little Chena	46QQ2AP	2200	65°08'N	146°32'W	2,3,4,5,7	a								
63	Colorado Creek	46PP4S	750	65°52'N	146°39'W	1,2,3,4,5,7	a								
64	Cleary Summit	47QQ1A	2230	65°03'N	147°24'W	1,2,3,4,5,7	a								
65	Yak Pasture	47PP1	540	64°52'N	147°55'W	2,3,4,5	a								
66	Bonanoua Creek	48PP1	1150	64°45'N	148°20'W	2,3,4,5	b								
67	Haystack Mtn.	47QQ2	1950	65°08'N	147°38'W	2,3,4,5	d								
68	Caribou Creek	47QQ3	1440	65°09'N	147°35'W	2,3,4,5	d								
69	Poker Creek	47QQ4S	1025	65°08'N	147°32'W	2,3,4,5,7	d								
70	Farewell Lake	53NN1A	1090	62°34'N	153°35'W	3,4	a								
71	Lake Minchumina	52001A	730	63°53'N	152°18'W	3,4	a								
72	Wien Lake	51PP1A	1020	64°22'N	151°18'W	3,4	a								
73	Lake Todatonten	52RR1a	980	66°10'N	152°55'W	3,4	a								

## LEGEND

Numerals 1,2,3,4,5, and 6 refer to January 1, February 1, March 1, April 1, May 1, June 1, and 7 - for special dates.

Letters refer to Agency that secures the snow survey, as follows

- a. Soil Conservation Service
- b. Forest Service
- c. U.S. Army Corps of Engineers
- d. U.S. Army Cold Regions Research & Engineering Lab
- e. Alaska Power Administration
- f. Bureau of Land Management
- g. U.S. Geological Survey
- h. University of Alaska
- i. Alaska Pipeline Office

Letters following the snow course no. refer to:

LETTERS following the snow course no. refer to:

- A. Snow course and aerial stadia marker
- a. Aerial stadia marker only
- M. Soil Moisture Station
- P. Precipitation Storage Gage
- S. Snow Pillow

M7-EN-22020

Map of Alaska showing snow courses and data measuring sites. The map includes labels for major cities, rivers, and islands. A prominent feature is a diagonal line from the Soviet Union (U.S.S.R.) across the state, marked with a compass rose and a scale bar. The title "SNOW COURSES AND RELA DATA MEASURING SITE" is at the bottom right, with the year "1978" below it.

# SNOW COURSES AND RELATED DATA MEASURING SITES **ALASKA**

1978

20 0 20 40  
SCALE 1:2,500,000  
ALBERS EQUAL AREA PROJECTION

MAP NO.	COURSE NAME	LAT.	LONG.	MEAS. DATES *	MEAS. BY
1	Arctic Valley #1	67°30'N	148°30'W	3,4	a
2	Arctic Valley #2	57°33'N	148°15'W	3,4	a
3	Arctic Valley #3	68°05'N	145°35'W	3,4	a
4	Arctic Valley #4	67°55'N	144°08'W	3,4	a
5	Arctic Ski Bowl	67°44'N	142°28'W	3,4,7	a
6	Ship Creek	67°23'N	143°45'W	3,4	a
7	Indian Pass	67°03'N	146°25'W	3,4,7	a
8	Bird Creek	66°35'N	145°15'W	3,4,7	a
9	South Campbell Creek	66°36'N	142°45'W	3,4,7	a
10	Mt. Alyeska	65°50'N	144°05'W	3,4,7	a
11	Bertha Creek	65°29'N	144°39'W	3,4	a
12	Kenai Summit	66°06'N	141°48'W	3,4	a
13	Moose Pass	65°25'N	141°40'W	3,4	a
14	Jean Lake	64°08'N	141°08'W	3,4,7	a
15	Bridge Creek (UP)	64°05'N	141°27'W	3,4	a
16	Bridge Creek (LO)	64°05'N	141°45'W	3,4,7	a
17	McArthur	63°42'N	142°17'W	3,4,5	a
18	Alexander Lake	58°16'N	134°27'W	3,4,5	b
19	Skwentna	58°16'N	134°31'W	1,2,3,4	b
20	Chelatna Lake	58°17'N	134°32'W	1,2,3,4	b
21	Peters Hills	58°19'N	134°33'W	1,2,3,4	b
22	Talkeetna	58°11'N	133°53'W	3,4,5,6,7	e
23	Bald Mtn. Lake	58°09'N	133°43'W	3,4,5,6,7	e
24	Fog Lakes	56°47'N	132°56'W	2,3,4,5	b
25	Monahan Flat	56°46'N	132°56'W	2,3,4,5	b
26	Clearwater Lake	56°36'N	132°50'W	2,3,4,5	b
27	Sanford River	55°29'N	131°37'W	3,4,5	b
28	St. Anne's Lake	55°30'N	131°37'W	3,4,5	b
29	Lake Louise	55°29'N	131°36'W	3,4,5	b
30	Oshtetna Lake	59°45'N	134°58'W	3,4,5	e
31	Little Nelchina	65°55'N	149°48'W	2,3,4,5	i
32	Willow Airstrip	66°13'N	150°15'W	2,3,4,5	i
33	Independence Mine	66°47'N	150°45'W	2,3,4,5	i
34	Sheep Mountain	67°16'N	150°10'W	1,2,3,4	i
35	Tsaina River	67°42'N	149°45'W	2,3,4,5	i
36	Worthington Glacier	67°58'N	149°45'W	2,3,4,5	i
37	Lowe River	68°37'N	149°26'W	7	d
38	Valdez	69°26'N	148°34'W	7	d
39	Wolverine Glacier (A)	70°15'N	148°30'W	7	h
40	Wolverine Glacier (B)	71°20'N	156°40'W	7	h
41	Wolverine Glacier C	70°29'N	157°25'W	7	h
42	Gulkana Glacier A	70°08'N	143°37'W	7	h
43	Gulkana Glacier B	69°30'N	147°00'W	7	h
44	Gulkana Glacier C	66°55'N	161°56'W	3,4	a,f
45	Mankomen Lake	65°40'N	162°27'W	3,4	a,f
46	Tok Junction	69°42'N	143°36'W	7	h
47	Mentasta Pass	68°05'N	149°29'W	7	d
48	Haggard Creek	68°08'N	149°35'W	7	d
49	Fielding Lake	62°49'N	149°18'W	2,3,4,5	a,c
50	Ft. Greely				
51	Granite Creek				
52	Big Delta				
53	French Creek				
54	Little Salcha				
55	Caribou Mine				
56	Munson Ridge				
57	Teuchet Creek				
58	Upper Chena			1, February 1, March 1, April 1,	
59	Lower Chena				
60	Monument Creek				
61	Mt. Ryan			now survey, as follows:	
62	Little Chena				
63	Colorado Creek				
64	Cleary Summit				
65	Yak Pasture				
66	Bonanza Creek			Engineering Lab	
67	Haystack Mtn.				
68	Caribou Creek				
69	Poker Creek				
70	Farewell Lake				
71	Lake Minchumina				
72	Wien Lake			er to:	
73	Lake Todatonten			er	
74	Bettles Field				
75	Anaktuvuk Pass				

# AGENCIES AND ORGANIZATIONS COOPERATING IN ALASKA SNOW SURVEYS

## CANADA

Department of Indian and Northern Affairs, Northern  
Natural Resources and Environment, Yukon Territory

## FEDERAL

Department of Agriculture  
Forest Service  
Institute of Northern Forestry  
North Tongass National Forest  
South Tongass National Forest  
Chugach National Forest  
Soil Conservation Service

Department of Commerce  
NOAA National Weather Service

Department of Defense  
U.S. Army Corps of Engineers  
U.S. Army Cold Regions Research and Engineering Laboratory

Department of Interior  
Bureau of Land Management  
Geological Survey  
Alaska Power Administration

## STATE

Alaska Department of Fish and Game  
Alaska Department of Highways  
Alaska Department of Natural Resources, Division of Parks  
Alaska Association of Soil Conservation Sub-districts  
Alaska Soil Conservation District  
University of Alaska  
Alaska Experiment Station  
Geophysical Institute

## MUNICIPALITIES

Municipality of Anchorage

## PUBLIC UTILITIES

Kodiak Electric Association

## PRIVATE

Mt. Alyeska Resort, Inc.  
NANA Regional Corporation

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SOIL CONSERVATION SERVICE  
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